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Modeling and performance analysis of QoS-aware load balancing of web-server clusters

Z Shan, C Lin, DC Marinescu, Y Yang - Computer Networks, 2002 - Elsevier

The Internet is evolving from a communication and browsing infrastructure to a medium for conducting business and selling services. Enterprises and service providers are increasingly motivated to migrate mission-critical services to the Web [1]; on-line banking, stock trading, ...

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[PDF] Supporting QoS routing in mobile ad hoc networks using probabilistic locality and load balancing

ES Elmallah, HS Hassanein, HM ... - GLOBECOM-NEW ..., 2001 - cs.queensu.ca

Page 1. Supporting QoS Routing in Mobile Ad Hoc Networks using Probabilistic Locality and Load Balancing * Ehab S. Elmallah U. of Alberta Computing Science Edmonton, T6G 2H1, Canada Hossam S. Hassanein Queen's University Comp. and Info. ...

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Application Routing Load Balancing (ARLB) to Support QoS for VoIP Application over a VPNs Environment

S Chirmanee, K Wipusitwarakun - nca, 2001 - computer.org

VoIP[4][10] is not appropriate for non-QoS network, which is the majority of networks in the Internet. It is, therefore, difficult to guarantee QoS[7] for VoIP over Virtual Private Networks (VPNs)[1] environment[2]. This paper presents an idea, which will alleviate such limit. The ...

Cited by 7 - Related articles - All 4 versions

[CITATION] QoS-aware load balancing algorithm for globally distributed Websystems

J Zhang, T Hamalainen, J Joutsensalo, K Kaario - info-tech and info-net, 2001. ..., 2001

Cited by 7 - Related articles - All 2 versions

[CITATION] QoS routing schemes for supporting load balancing

JJ Hong, SH Kim, KH Lee - ... Speed Networks and Multimedia Communications 5th ..., 2002

Cited by 5 - Related articles

[CITATION] QoS-aware routing schemes based on hierarchical load-balancing for integrated sei packet networks

C Casetti, R Mellia, MD di Elettronica - 1999 IEEE International Conference on ..., 1999

Cited by 5 - Related articles - BL Direct - All 6 versions

[PDF] Method for Improving Cache Hit-Rates in QoS-Aware Load Balancing Algorithm (QoS-L)

K Kaario, M Wikstrom, T Hamalainen - GLOBECOM-NEW YORK-, 2001 - it.itib.ac.in

Abstract—The low cost and variety of future clients (eg, PDAs, lap-tops, pagers, printers, and specialized appliances) will result in a larger number of client devices per user. Thin clients will have fast processors, but little or no disk storage so that they will download most of their ...

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[PDF] Efficient Building Method of Multiple Spanning Tree for QoS and Load Balancing

H Yu, S Das, Y Lim, M Gerla - IEEE Globecom, 2003 - Citeseer

Abstract—Recent traffic feature is far removed from the traffic trends seen during the early days of Ethernet technology. Therefore the current IEEE 802.1 standards and its extensions to the Spanning Tree protocol fall short of providing satisfactory quality of service for traffic ...

Cited by 4 - Related articles - View as HTML - All 6 versions

[CITATION] A load balancing algorithm supporting QoS for traffic engineering in MPLS network

B Qui, Z Yang, W Ding - Computer and Information Technology, 2004. CIT'04. ..., 2004
 Cited by 3 - Related articles - All 5 versions

[CITATION] Efficient path selection for QoS routing in load balancing

Mc Yuen, CC Cheung - Communications, 2003. APCC 2003. The 9th Asia- ..., 2003
 Cited by 2 - Related articles

[CITATION] Yang Y, "QoS-aware load balancing in web-server clusters: performance modeling : approximate analysis,"

Z Shan, C Lin, DC Marinescu - Computer Networks J. 2002
 Cited by 2 - Related articles

[CITATION] QoS-aware load balancing in Web-server clusters: Performance modeling and approximate analysis

Z Zhan, C Lin, DC Marinescu... - Computer Networks, 2002
 Cited by 2 - Related articles

[CITATION] Y. Lim, M. Gerla, Efficient Building Method of Multiple Spanning Tree for QoS and Load Balancing, GLOBECOM 2003

H Yu, S Das - 2003 - IEEE
 Cited by 2 - Related articles

A Load Balancing Algorithm Based on QoS for Multi-task Real-time Cluster Systems

BAI Xue-fei, H Ben-xiong - Telecommunication Engineering, 2004 - en.cnki.com.cn
Load balancing is a key problem in a multi-task real-time cluster system. After analyzing the merits and demerits of round-robin algorithm and least tasks first algorithm, this paper introduces LW(load weigh) to describe the **load** state of cluster node more accurately by mapping the ...
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A Study on A Advanced Load Balancing Method. Sharing of A Load Balancing Device with Multiple Customers, and Balancing of Requests for Streaming Contents ...

J WATASE, T TAMURA, K YANAGIMOTO, T ... - IEIC Technical Report ..., 2002 - sciencelinks.jp
 Abstract:We proposed a **load balancing** method and a design of a **load balancing** device for cost reduction of data center services in the Internet, and intranets, which **load balancing** method also enable to stabilize quality of service of streaming applications, such as video, music ...
 Cached

[CITATION] QoS sensitive domain routing for load balancing network

W Ye - Advanced Communication Technology, 2004. The 6th ..., 2004
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MIS-LB: a QoS routing algorithm with min-sharing interference and load balancing based on nonlinear path distance

M Zhang, X Yang, X Tang, H Liu - Proceedings of SPIE, 2004 - link.aip.org
 As known, the **QoS** routing under multiple constraints, which can be additive, multiplicative and concave, is a NP-complete problem, and is difficult to get a polynomial-time solution. Currently, many heuristic algorithms have been proposed to solve this problem, where ...
 All 4 versions

QoS-aware routing schemes based on hierarchical load-balancing for integrated services packet networks," presented at the

RL Cigno, M Mellia - IEEE Globecom, 1999 - Citeseer
 Abstract—This paper presents a **load balancing** method to improve network utilization when static routing algorithms are employed. Static routing algorithms can generally be reduced to a path assignment problem with the aim of minimizing a cost function: ie, maximizing ...
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[CITATION] MIS-LB: a QoS routing algorithm with min-sharing interference and load balancing based on nonlinear path distance [5282-71]

http://scholar.google.com/scholar?as_q=Qos+load+balancing&num=100&btnG=Search+Sc... 5/3/2010

M Zhang, X Yang, X Tang, H Liu - ..., 2003 - International Society for Optical ...
[BL Direct](#)

[CITATION] Simple Mathematical Modeling of Efficient Path Selection for QoS Routing in Load Balancing

WJ Man-Ching Yuen, CC Cheung - International Conference on Multimedia ..., 2004 - IEEE

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[CITATION] ... on New Developments on QoS Technologies for Information Networks-PAPERS-Network-Supported Server Load Balancing Method: Active Anycast

..., H Miura, K Nishimura, H Ikeda - IEICE ..., 2001 - Tokyo, Japan: Institute of Electronics, ...

[CITATION] GC09-5 Efficient Building Method of Multiple Spanning Tree for QoS and Load Balancing

H Yu, S Das, Y Lim, M Geria - GLOBECOM-NEW YORK-, 2003 - IEEE: 1998

[BL Direct](#)

[CITATION] An efficient QoS routing algorithm based on nonlinear path distance for min-sharing interference and load balancing

X Yang, S Zhou, M Zhang, X Tang, J Liu - ... and Information Technology, 2004. CIT'04 ..., 2004

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[CITATION] Simple mathematical modeling of efficient path selection for QoS routing in load balancing

MC Yuen, W Jia, CC Cheung - 2004 IEEE International Conference on Multimedia ..., 2004

[All 2 versions](#)

Propose of dynamic load balancing method for QoS traffic

T Ogura, M Fukazawa, M Kato, T ... - 電子情報通信学会技術 ..., 2002 - 万方数据资源系统

Traffic Engineering (TE) is needed in order to optimize IP network resource utilization.

Especially, **load balancing** with TE can avoid traffic concentration on single path between ingress and egress routes. We have built MPLS (Multi Protocol Label Switching) network with TE ...

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